AMORPHOUS BORON GRADE I, GRADE II, GRADE III

Chemical Formula B
Chemical Name Amorphous Boron
HS Number 28045010
Grades Available

<table>
<thead>
<tr>
<th>Product Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amorphous Boron Grade I</td>
</tr>
<tr>
<td>Amorphous Boron Grade II</td>
</tr>
<tr>
<td>Amorphous Boron Grade III</td>
</tr>
</tbody>
</table>

Chemical Characteristics
(Mass fraction in % [cg/g]; ppm [µg/g])

<table>
<thead>
<tr>
<th></th>
<th>Grade I</th>
<th>Grade II</th>
<th>Grade III</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>min. 95.0 %</td>
<td>90.0 %</td>
<td>86.0 %</td>
</tr>
<tr>
<td>B H₂O soluble</td>
<td>max. 0.2 %</td>
<td>0.5 %</td>
<td>0.3 %</td>
</tr>
<tr>
<td>H₂O₂ insoluble</td>
<td>max. 1.0 %</td>
<td>1.0 %</td>
<td>1.0 %</td>
</tr>
<tr>
<td>moisture</td>
<td>max. 0.5 %</td>
<td>0.5 %</td>
<td>0.5 %</td>
</tr>
<tr>
<td>O</td>
<td>max. 2.2 %</td>
<td>4.5 %</td>
<td>1.5 %</td>
</tr>
<tr>
<td>N</td>
<td>max. 0.4 %</td>
<td>0.3 %</td>
<td>0.3 %</td>
</tr>
<tr>
<td>Mg</td>
<td>max. 0.8 %</td>
<td>6.0 %</td>
<td>12.0 %</td>
</tr>
</tbody>
</table>

Physical Characteristics

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<th></th>
<th>Grade I</th>
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<th>Grade III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Particle Size</td>
<td>max. 1.0 µm</td>
<td>0.8 µm</td>
<td>1.4 µm</td>
</tr>
<tr>
<td>Specific Surface Area</td>
<td>min. 10.0 m²/g</td>
<td>18.0 m²/g</td>
<td>5.0 m²/g</td>
</tr>
</tbody>
</table>

1) Tri Star 3000 3-point by BET per ASTM D 3663, e) These products are under export control.
SEM Photomicrograph
scale see photograph,
Amorphous Boron Grade I

Packaging

**Grade I and III:** 20 kg steel drums with polyethylene inlet (60l).
8 drums on one pallet CP 1 (1000 x 1200 mm) = 1 packaging unit
of 160 kg.

**Grade II:** 15 kg steel drums with polyethylene inlet (60l).
8 drums on one pallet CP 1 (1000 x 1200 mm) = 1 packaging unit
of 120 kg.

Other packaging/quantity on request.

**Lot Size**
Höganäs amorphous boron powders are available in homogeneous
lots up to 600 kg.

**Storage and Handling**
Storage and handling are subject to the rules and regulations in the country of
use. Store in a closed container.

**Hazards identification in Advertising (REGULATION (EC) No 1272/2008)**
None.

**Documentation**
An inspection document in accordance with EN 10204 is supplied with every
shipment.

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